Roll No. Total No. of Pag

Total No. of Questions: 07

BCA (2013 & Onwards) (Sem.-4) MICROPROCESSORS & MICROCONTROLLERS

Subject Code: BSBC-402 Paper ID: [B0241]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.

SECTION-A

Q1) Answer briefly:

- a) Explain ALE.
- b) Discuss various software interrupt of 8085.
- c) Discuss Clock Generator.
- d) Differentiate between internal and external memories.
- e) What is an Interrupt? Discuss it in detail.
- f) What are counters and timers?
- g) Discuss I/O ports of 8086.
- h) Discuss Arithmetic Instructions.
- i) What is the use of flags in microprocessor?
- j) Explain Historic Background of Microprocessor.

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SECTION-B

- Q2) Explain the addressing modes with instruction cycle in detail.
- Q3) Elaborate in detail the architecture of programmable Interrupt Controller 8259.
- Q4) Discuss the architecture of the Microcontroller.
- Q5) Explain the architecture of 8085 microprocessor in detail.
- Q6) Differentiate between RISC and CISC Processors.
- Q7) a) Discuss architecture of 8284 controller
 - b) Explain Pin Diagram of 8085.

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